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6d Seiberg-Witten curves for E-string and Little string theories from 5-brane webs

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We propose a systematic way of obtaining 6d Seiberg-Witten curves from Type IIB 5-brane webs with or without orientifold planes, by generalizing the construction of 5d Seiberg-Witten curves from 5-brane webs. We apply our construction to two kinds of theories: 6d E-string theory and little string theory. In particular, the expression of Seiberg-Witten curve for the E-string theory drastically reduces compared with Eguchi-Sakia's curves. The Seiberg-Witten curve for little string theory that we consider is consistent with the known result. Furthermore, we discuss some other possibilities which may define different little string theories.

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